US ERA ARCHIVE DOCUMENT

Date Out: AUG 17 1994 Chemical Code: 101101

DP Barcode(s): D198368

## **ENVIRONMENTAL FATE AND GROUND WATER BRANCH**

#### **Review Action**

| To: | F | Robert | Tay | lor, | PM | #25 |
|-----|---|--------|-----|------|----|-----|
|-----|---|--------|-----|------|----|-----|

Reregistration Division (7505C)

From: Elizabeth Behl, Section Head

**Ground Water Technology Section** 

Environmental Fate & Ground Water Branch/EFED

Thru: Henry Jacoby, Chief

Environmental Fate & Ground Water Branch/EFED 7507

Attached, please find the EFGWB review of...

| Common Name:  | Metribuzin Trade Sencor name:   |
|---------------|---|
| Company Name: | Miles, Inc.   |
| ID#:          | 003125-00325  |
| Purpose:      | Review request from State of Florida to amend ground-water label advisory for metribuzin. |

| Type Product: | Action Code: | EFGWB #(s): | Review<br>Time: |
|---------------|--------------|-------------|-----------------|
| Herbicide     | 300          |             | 1 day           |

# STATUS OF STUDIES IN THIS PACKAGE: REQUIREMENTS

| Guideline # | MRID | Status <sup>1</sup> |
|-------------|------|---------------------|
|             | NA   |                     |
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#### STATUS OF DATA

## ADDRESSED IN THIS PACKAGE:

| Guideline # | Status <sup>2</sup> |
|-------------|---------------------|
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#### 1. CHEMICAL:

Chemical name: 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one

Common name: Metribuzin

Trade name(s): Sencor

Structure:

#### 2. **TEST MATERIAL**:

Not Applicable.

#### STUDY/ACTION TYPE: 3.

Review request from State of Florida to amend ground-water label advisory for metribuzin.

#### 4. STUDY IDENTIFICATION:

Title:

- 1) Letter from Elizabeth Braxton (Administrator, Pesticide Compliance Section, Florida Department of Agriculture and Consumer Affairs) to Cheryl Prinster (EPA, Florida Project Officer), September 2, 1993
- 2) Letter from Jewell Grubbs (EPA Region 4, Pesticides Section) to Ed Allen (EPA Registration Branch), December 21, 1993

Identifying No.:

003125-00325

Date Sent to EFED: 1/18/94

Submitted for:

Florida Department of Agriculture and Consumer Affairs

Bureau of Pesticides

3125 Conner Boulevard MC-1 Tallahassee, FL 32399-1650

| <b>5</b> . | RE | VIEW | ÆD | BY |  |
|------------|----|------|----|----|--|
|------------|----|------|----|----|--|

Estella Waldman

Hydrologist

OPP/EFED/EFGWB/Ground Water Section

6. APPROVED BY:

Elizabeth Behl

Signature:

Section Head

OPP/EFED/EFGWB/Ground Water Section

Date:

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



OFFICE OF PREVENTION. **PESTICIDES AND TOXIC SUBSTANCES** 

#### **MEMORANDUM**

RE:

Ground-Water Label Advisory for Metribuzin

FROM:

Estella Waldman, Hydrologist

Ground Water Technology Section Cottle Moldan

Environmental Fate and Ground Water Branch (7507C)

Elizabeth Behl, Chief

Ground Water Technology Section

Environmental Fate and Ground Water Branch (7507C)

THRU:

Henry Jacoby, Chief

Environmental Fate and Ground Water Branch Environmental Fate and Effects Division (7507C)

TO:

Robert Taylor, Product Manager #25

Registration Division (7505C)

#### Background

A letter from the Florida Department of Agriculture and Consumer Affairs (FDACS) was submitted to the Environmental Protection Agency regarding the metribuzin ground-water label advisory which was stated to be unenforceable. FDACS requested that revisions be made to ensure that the label is "enforceable and that the meaning is clearly understandable." The request was connected to the report issued following the misuse of metribuzin on a Florida golf course. In this report, the author stated that the product's label did not clarify or define the advisory for ground water.

The ground-water advisory statement has been developed for chemicals which are known to leach to ground water (metribuzin, for example) or for those chemicals which exhibit certain persistence and mobility characteristics indicating the potential to leach to ground water. The advisory statement is the mildest form of regulatory action available to the Agency, and is specifically designed to alert the user to a potential ground- water problem. The statement is

not designed to be enforceable since further regulatory action, if needed, will accomplish this goal. In the case of metribuzin, this additional regulation will be accomplished with the release of the Registration Eligibility Document.

#### Recommendations

One option available to the State of Florida is to develop state label restrictions that they consider appropriate for this chemical. The pesticide regulatory authorities in the state could restrict the use of metribuzin in areas they consider vulnerable to contamination. Specific soil types or depths to ground water could be defined to ensure the protection of ground-water resources. In this way, any restrictions on the Florida label would be made enforceable by state authorities.

#### METRIBUZIN

Last Update on March 11, 1994

[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

LOGOUT Reviewer: Solution Head: Date:

Common Name: METRIBUZIN

Smiles Code:S(C)C(=NN=C1C(C)(C)C)N(N)C1=O

PC Code # :101101

CAS #:21087-64-9

Caswell #:

Chem. Name :4-AMINO-6-tert-BUTYL-3-(METHYLTHIO)-as-TRIZIN-5(4H)-ONE

Action Type:Herbicide

Trade Names: BAY 94337; LEXONE; SENCOR

(Formul'tn): WP, FLOWABLE CONC., DRY FLOWABLE CONC.,

Physical State:

Use :BROADLEAF WEEDS AND GRASSES IN SOYBEANS, POTATOES, BARLEY, Patterns :WINTER WHEAT, ASPARAGUS, SUGARCANE, TOMATOES, LENTILS, PEAS,

(% Usage) :AND NONCROPLAND

Empirical Form: C<sub>8</sub>H<sub>14</sub>N<sub>4</sub>OS

Molecular Wgt.: 214.29 Vapor Pressure: 1.20E -7 Torr

Melting Point: °C Boiling Point: °C

Log Kow : 1.60 pKa: @ °C

Henry's : 3.50E-11 Atm. M3/Mol (Measured) 3.08E-11 (calc'd)

Solubility in ... Comments

| Water        | 1.10E | 3 | ppm | @20.0 | °C   |
|--------------|-------|---|-----|-------|------|
| Acetone      | E     |   | ppm | @     | °C   |
| Acetonitrile | E     |   | ppm | @     | °C   |
| Benzene      | E     |   | ppm | @     | °C   |
| Chloroform   | E     |   | ppm | @     | °C   |
| Ethanol      | E     |   | ppm | @     | ٥Ğ   |
| Methanol     | E     |   | ppm | @     | °C . |
| Toluene      | E     |   | ppm | @     | °C   |
| Xylene       | E     |   | ppm | @     | °C   |
| -            | E     |   | ppm | @     | °C   |
|              | E     |   | mag | @     | °C   |

Hydrolysis (161-1)

[V] pH 5.0:STABLE AT pH 5

[ ] pH 7.0:STABLE AT pH 7

[ ] pH 9.0:STABLE AT pH 9

[] pH :

[ ] pH

[ ] pH

## METRIBUZIN

Last Update on March 11, 1994
[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

| Photolysis (161-2, -3, -4)  [V] Water:4.3 H. AFTER 6 H OF IRR., METRIBUZIN=33 % OF DOSE.  [] :DEGRADATE DEAMINATED METRIBUZIN (DA) WAS 55 % OF DOSE.  [] :NO DEGRADATION WAS OBSERVED IN DARK CONTROLS.  [] :  |         |
|--|---------|
| [V] Soil :2.5 DAYS ON SD LM SOIL. METRIBUZIN WAS 48 % OF DOSE AT [] Air :DAYS IN IRRAD. AND 96 % IN DARK CONTROL. DEG-SEE DEG. S   | 4<br>EC |
| Aerobic Soil Metabolism (162-1)  [U] 40 days  [V] 106 DAYS IN SD LM SOIL. TWO MAJOR DEGRADATES, DIKETO  [] METRIBUZIN (DK), DEAMINATED DIKETO METRIBUZIN (DADK).  [] MINOR DEGRADATES WERE DA, 2-METHYL DADK, 4-METHYL DK, AND  [] 3-AMINO DA.  []  [] |         |
| Anaerobic Soil Metabolism (162-2)  [V] 112 DAYS IN SD LM SOIL. THE DEGRADATES IDENTIFIED WERE  [ ] DADK, DA, DK, AND 2-METHYL DADK.  [ ]  [ ]  [ ]  [ ]  [ ]   |         |
| Anaerobic Aquatic Metabolism (162-3) [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]   |         |
| Aerobic Aquatic Metabolism (162-4) [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]   |         |
|  |         |

PAGE: 2 =

Last Update on March 11, 1994 Study [S] = Supplemental Study [U] = USDA Data [V] = Validated Study

|  | artiti                               |                                |  |                               |                               |                        |             |         |          |           |    |
|--|--------------------------------------|--------------------------------|--|-------------------------------|-------------------------------|------------------------|-------------|---------|----------|-----------|----|
|  | TEXTUR                               |                                |  |                               | %OM                           | pH                     | CEC         | Kdads   | Kddes    | Koc       |    |
| [V]  | SAND                                 | 88                             |  | . 5                           | 1.0                           | 4.3                    |             | 0.25    |          | 47-106    |    |
|  | SD LM                                | 56                             |  | 14                            | 1.1                           | 6.6                    |             | 0.02    | 0.14     |           |    |
| []   | SI LM                                | 17                             |  | 17                            | 2.9                           | 5.9                    |             | 0.22    |          |           |    |
|  | CL LM                                | 21                             |  | 29                            | 2.2                           | 6.4                    |             | 0.20    | 0.41     | 17-36     |    |
| [ ]  | SEE AG                               | ED CC                          | DLUMN                                  | LEAC                          | HING :                        | BELOW                  | ī           |         |          |           |    |
| Cail E   | e tack                               |                                | (162 1                                 | ı A                           |                               |                        |             |         |          |           |    |
| [V]  | Rf Fact<br>STATE                     |                                |  | L)<br>SOM                     | рН                            | CEC.                   | ת פ         | % IN LE | שיימעיים |           |    |
|  |                                      | SD LM                          |  | 2.4                           | 5.2                           |                        |             | 24      | MCIMID   | ,         |    |
|  |                                      | SI CI                          |  |                               | 6.7                           | 29                     |             | 34      |          |           |    |
|  |                                      | SI LM                          |  | 2.7                           | 6.4                           | 21                     | 2.6         | 16      | ,        | . /       |    |
| 1 1  |                                      | SD LA                          |  | L.2                           | 5.4                           | 12                     | 2.6         | 48      |          |           |    |
|  |                                      |                                |  |                               |                               |                        |             |         | TR 30 DA | YS AGING. |    |
| r j  |                                      | 02211                          | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | J. 144                        | 022011                        |                        |             |         |          |           |    |
| Labora   | tory V                               | olati                          | lity                                   | (163                          | -2)                           |                        |             |         |          |           |    |
| []   | · ·                                  |                                | •                                      |                               |                               |                        |             |         |          |           |    |
| []   |                                      |                                |  |                               |                               |                        |             |         |          |           |    |
|  |                                      |                                |  |                               |                               |                        |             |         |          |           |    |
| Field  | Volati                               | lity                           | (163-                                  | -3)                           |                               |                        |             |         |          | **        |    |
| [ ]  |                                      |                                |  |                               |                               |                        |             |         |          |           |    |
| [ ]  |                                      |                                |  |                               |                               |                        |             |         |          |           |    |
|  |                                      |                                |  |                               | 3                             |                        |             |         |          | •         |    |
|  |                                      |                                |  |                               | • ,                           |                        |             |         |          | •         |    |
|  | strial                               |                                |  |                               |                               |                        |             |         | <b></b>  | TO CT     |    |
| [V]  | 128 AN                               | D 40                           | DAYS                                   | IN S                          | DLM.                          | AT WA                  | MOSTA       |         | JD FRESN |           |    |
| [V]<br>[ ]   | 128 AN<br>NO LEA                     | D 40<br>CHING                  | DAYS<br>OF N                           | IN S<br>ÆTRI                  | D LM<br>BUZIN                 | AT WA                  | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES | ١. |
| [V]<br>[ ]<br>[S]                                  | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    |           |    |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA                     | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[ ]<br>[S]                                  | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES | ;  |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[ ]<br>[S]<br>[ ]                           | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS          | DAYS<br>FOF N                          | IN S<br>METRI<br>SI CL        | D LM<br>BUZIN<br>LM,          | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107           | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V]<br>[S]<br>[S]<br>[]<br>[]<br>[]<br>[]          | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
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| [V] [ ] [ S] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V] [ ] [ S] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |
| [V] [ ] [ S] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ | 128 AN<br>NO LEA<br>58-107<br>LM SOI | D 40<br>CHING<br>DAYS<br>LS IN | DAYS<br>FOF N<br>SIN S<br>N MI,        | IN S<br>METRI<br>SI CL<br>ME, | D LM<br>BUZIN<br>LM,<br>AND C | AT WA<br>, DA,<br>MUCK | TSON<br>DK, | OR DADI | BELOW    | 12 INCHES |    |

= PAGE: 3 =

Last Update on March 11, 1994

|     |   |           | Hast  | opu | auc | on march in  | , 1224 |       |        |      |
|-----|---|-----------|-------|-----|-----|--------------|--------|-------|--------|------|
| [V] | = | Validated | Study | [S] | =   | Supplemental | Study  | [U] = | USDA I | Data |

| Long-Term Soil Dissipation (164-5) [ ] [ ]  |
|---|
| Accumulation in Rotational Crops, Confined (165-1) [S] RESIDUES ACCUMULATED IN PEANUTS THAT WERE PLANTED  '   |
| Accumulation in Rotational Crops, Field (165-2) [ ] [ ]   |
| Accumulation in Irrigated Crops (165-3) [S] DADK AND METRIBUZIN WERE ONLY SIGNIF. DETECTIONS IN KALE, [] BEETS, AND WHEAT. DADK ACCUMULATED IN KALE AT 5X SOIL CONC.  |
| Bioaccumulation in Fish (165-4) [ ] [ ]   |
| Bioaccumulation in Non-Target Organisms (165-5) [ ] [ ]   |
| Ground Water Monitoring, Prospective (166-1) [ ] [ ] [ ] [ ] [ ]  |
| Ground Water Monitoring, Small Scale Retrospective (166-2) [] Protocol approved on 4/14/88. Final report results: up to 1.4 ppb [] metribuzin and 6.7 ppb total metribuzin residues in ground water [] more than two years after a metribuzin application. [] |
| Ground Water Monitoring, Large Scale Retrospective (166-3) [ ] [ ] [ ] [ ]  |
| Ground Water Monitoring, Miscellaneous Data (158.75) [ ] Metribuzin has been detected in 12 states at concentrations [ ] ranging up to 25.10 $\mu g/l$ (ppb). [ ]   |

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#### METRIBUZIN

Last Update on March 11, 1994

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| Field Runof [ ] [ ] [ ] [ ] | f (167-1)  |           |         |
|-----------------------------|------------|-----------|---------|
| Surface Wat [ ] [ ] [ ] [ ] | er Monitor | ing (167- | 2)      |
| Spray Drift [ ] [ ] [ ] [ ] | , Droplet  | Spectrum  | (201-1) |
| Spray Drift [ ] [ ] [ ] [ ] | , Field Ev | raluation | (202-1) |

Degradation Products

N-glucoside of 6-T-butyl-1,2,4-triazin-3,5(2H,4H)-dione (.047ppm) 6-t-butyl-3(methylthio)-1,2,4-triazin-5(4H)-one (.014 ppm) 4-amino-6-t-butyl-1,2,4-triazin-3,5(2H,4H)-dione (.005 ppm) Concentrations shown represent data from organosoluble degradates in soil at 393 days posttreatment

#### METRIBUZIN

Last Update on March 11, 1994
[V] = Validated Study [S] = Supplemental Study [U] = USDA Da

Comments

Soil Koc = 41.

References:

Writer : PJH, EB, JAB, EW